



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 S.W. 26th Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590, F (786) 315-2599
www.miamidade.gov/economy

Kawneer Company, Inc.
555 Guthridge Court
Norcross, GA 30092

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "350IR" Outswing Wet Glazed Aluminum Storefront Door – L.M.I.

APPROVAL DOCUMENT: Drawing No. 1460, titled "350IR Outswing Aluminum Storefront Doors – L.M.I. Wet Glazed", sheets 01 thru 13 of 13, prepared by W. W. Schaefer Engineering and Consulting, P. A., dated 11/10/05 with the latest revision "E1" dated 01/30/14, signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant.

LIMITATIONS: See design pressure limitations on sheet 05 of 13, where the lower design pressure of all applicable tables shall control.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series and following statement: "Miami-Dade County Product Control Approved" unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 11-1013.03 and consists of this page 1, evidence pages E-1, E-2, E-3, E-4 and E-5, as well as approval document mentioned above.

The submitted documentation was reviewed by Jaime D. Gascon, P. E.



Jaime D. Gascon
12/24/14

NOA No. 14-0602.03
Expiration Date: February 08, 2017
Approval Date: December 24, 2014
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. 1460, titled "**350IR Outswing Aluminum Storefront Doors – L.M.I. Wet Glazed**", sheets 01 through 13 of 13, prepared by W. W. Schaefer Engineering and Consulting, P. A., dated 11/10/05 with the latest revision "**E1**" dated 01/30/14, signed and sealed by Warren W. Schaefer, P. E.

B. TESTS

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
4) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94


Along with marked-up drawings and installation diagram of aluminum outswing door and outswing door w/ storefront/ curtain wall system, prepared by Architectural Testing, Inc., Test Reports No.'s **ATI-D3741.01-550-18 & ATI-D3741.04-550-18**, both dated 04/23/14 respectively, signed and sealed by Vinu J. Abraham, P. E.

2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with marked-up drawings and installation diagram of aluminum outswing door and outswing door w/ storefront/ curtain wall system, prepared by Architectural Testing, Inc., Test Report No. **ATI-D3741.02-550-18**, dated 04/23/14 respectively, signed and sealed by Vinu J. Abraham, P. E.

3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

Along with marked-up drawings and installation diagram of aluminum outswing door and outswing door w/ storefront/ curtain wall system, all prepared by Architectural Testing, Inc., Test Reports No.'s **ATI-D3741.03-550-18, ATI-D3741.05-550-18, ATI-D3741.08-550-18 and ATI-D3741.09-550-18**, dated 04/23/14 respectively, signed and sealed by Vinu J. Abraham, P. E.

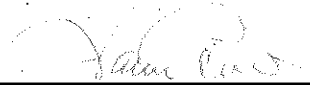


Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14-0602.03
Expiration Date: February 08, 2017
Approval Date: December 24, 2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

4. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
Along with marked-up drawings and installation diagram of aluminum outswing door and outswing door w/ storefront, prepared by Hurricane Testing Laboratory, LLC, Test Report No. **HTL-G049-0804-10**, dated 10/26/10, signed and sealed by Vinu J. Abraham, P. E. *(Submitted under previous NOA No. 11-0228.04)*
5. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
4) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
Along with marked-up drawings and installation diagram of aluminum outswing door and outswing door w/ storefront, prepared by Hurricane Testing Laboratory, LLC, Test Reports No.'s **HTL-G049-0201-09** and **HTL-G049-0310-08**, dated 07/01/09 and 09/23/08, both signed and sealed by Vinu J. Abraham, P. E. *(Submitted under previous NOA No.09-0930.11)*
6. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
Along with marked-up drawings and installation diagram of aluminum outswing door and outswing door w/ storefront/ curtain wall system, prepared by Hurricane Testing Laboratory, LLC, Test Reports No.'s **HTL-G049-1005-06** and **HTL-G049-0111-06**, dated 01/31/07 and 01/17 through 20/06 respectively, both signed and sealed by Vinu J. Abraham, P. E. *(Submitted under previous NOA No. 07-0416.02)*
7. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Small Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
7) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
Along with marked-up drawings and installation diagram of aluminum outswing door and outswing door w/ storefront/ curtain wall system, prepared by Hurricane Testing Laboratory, LLC, Test Report No. **HTL-G049-1201-05**, dated 12/05/2005 and 01/24/2006 respectively, signed and sealed by Vinu J. Abraham, P. E. *(Submitted under previous NOA No. 06-0803.05)*


Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14-0602.03
Expiration Date: February 08, 2017
Approval Date: December 24, 2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)**, prepared by W. W. Schaefer Engineering & Consulting, P. A., dated 05/19/14, signed and sealed by Warren W. Schaefer, P. E.
2. **Complies with ASTM E1300-04/ 09**

D. QUALITY ASSURANCE


1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11-0624.02** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass® Interlayer**" dated 08/25/11, expiring on 01/14/17.
2. Notice of Acceptance No. **13-0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 04/11/13, expiring on 12/11/16.
3. Notice of Acceptance No. **14-0423.15** issued to **Eastman Chemical Company (MA)** for their "**Saflex CP – Saflex and Saflex HP Composite Glass Interlayers with PET Core**" dated 06/19/14, expiring on 12/11/18.
4. Test reports on:
 - 1) ASTM D412C Tensile Test 30HRS passed 1340 PSI and 1200PSI;
 - 2) ASTM D395B Compression Set 22 HRS with 100°C passed $24.8\% \leq 30\%$;
 - 3) ASTM D2240 Shore A Hardness passed $70A \leq 70(\pm 5)$ durometer;
 - 4) ASTM D1149 Ozone Resistance 100 HR/ 40°F/ 20% strain/ 100 pphm NO Cracks;
 - 5) ASTM D573 Heat Resistance 70 HR/ 100°C passed:
Tensile $-1\% \leq 15\%$, Elongation $-37\% \leq 40\%$, Hardness $6 \leq 10$ and $7\text{PSI} \leq 10\text{PSI}$;
 - 6) ASTM D925 Migration Staining 7 day's exposure passed None Migration;
 - 7) ASTM D624C Tear Test passed $135 \text{ pli} \geq 100 \text{ pli}$;along with marked-up drawings and installation diagram of neoprene's wedge, sponge and setting block by Tremco, Inc., prepared by Excel Polymers, LLC (A2LA No. 0121. 01), Test Report No. **EP 67286**, dated 02/16/09, signed by John Quinn.
(Submitted under previous NOA No. 11-0228.04)

F. STATEMENTS


1. Statement letter of conformance to and compliances with the **FBC 5th Edition (2014)**, **ANSI/ AAMA/ NWWDA 101/ I.S.2-97** and **FBC 2010**, prepared by W. W. Schaefer Engineering & Consulting, P. A., dated 05/19/14, signed and sealed by Warren W. Schaefer, P. E.


Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14-0602.03
Expiration Date: February 08, 2017
Approval Date: December 24, 2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS (CONTINUED)

2. Statement letter of no financial interest and independency, prepared by W. W. Schaefer Engineering & Consulting, P. A., dated 02/10/14, signed and sealed by Warren W. Schaefer, P. E.
3. Laboratory compliance letter for Test Reports No.'s **ATI-D3741.01-550-18**, **ATI-D3741.02-550-18**, **ATI-D3741.03-550-18**, **ATI-D3741.04-550-18**, **ATI-D3741.05-550-18**, **ATI-D3741.08-550-18** and **ATI-D3741.09-550-18**, all issued by Architectural Testing, Inc., dated 04/23/14 respectively, signed and sealed by Vinu J. Abraham, P. E.
4. Proposal issued by the Product Control Section, dated 07/26/13, signed by Jaime D. Gascon, P. E.
5. Statement letter of protection, prepared by W. W. Schaefer Engineering & Consulting, P. A., dated 02/23/12, issued by Warren W. Schaefer, P. E.
(Submitted under previous NOA No. 11-1013.03)
6. Statement letter of conformance to and compliances with the **FBC-2007** and **FBC-2010**, prepared by W. W. Schaefer Engineering & Consulting, P. A., dated 10/06/11, signed and sealed by Warren W. Schaefer, P. E.
(Submitted under previous NOA No. 11-1013.03)
7. Statement letter of no financial interest and independency, prepared by W. W. Schaefer Engineering & Consulting, P. A., dated 10/06/11, signed and sealed by Warren W. Schaefer, P. E. *(Submitted under previous NOA No. 11-1013.03)*
8. Laboratory compliance letter for Test Report No. **HTL-G049-0804-10**, issued by Hurricane Test Laboratory, LLC, dated 10/26/2010, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 11-0228.04)
9. Laboratory compliance letter for Test Report No. **EP-67286**, issued by Excel Polymers, LLC (A2LA No. 0121.01), dated 07/01/2009, dated February 16, 2009, signed by John Quinn.
(Submitted under previous NOA No. 11-0228.04)
10. Laboratory compliance letter for Test Reports No.'s **HTL-G049-0201-09** and **HTL-G049-0310-08**, issued by Hurricane Test Laboratory, LLC, dated 07/01/2009, both signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No.09-0930.11)
11. Laboratory addendum letters for Test Reports No.'s **HTL-G049-0201-09** and **HTL-G049-0310-08**, issued by Hurricane Test Laboratory, LLC, dated 02/02/09 and 06/07/07, both signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No.09-0930.11)
12. Laboratory addendum letter for Test Report No. **HTL-G049-1005-06**, issued by Hurricane Test Laboratory, LLC, dated 06/07/07, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 07-0416.02)


Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14-0602.03
Expiration Date: February 08, 2017
Approval Date: December 24, 2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS (CONTINUED)

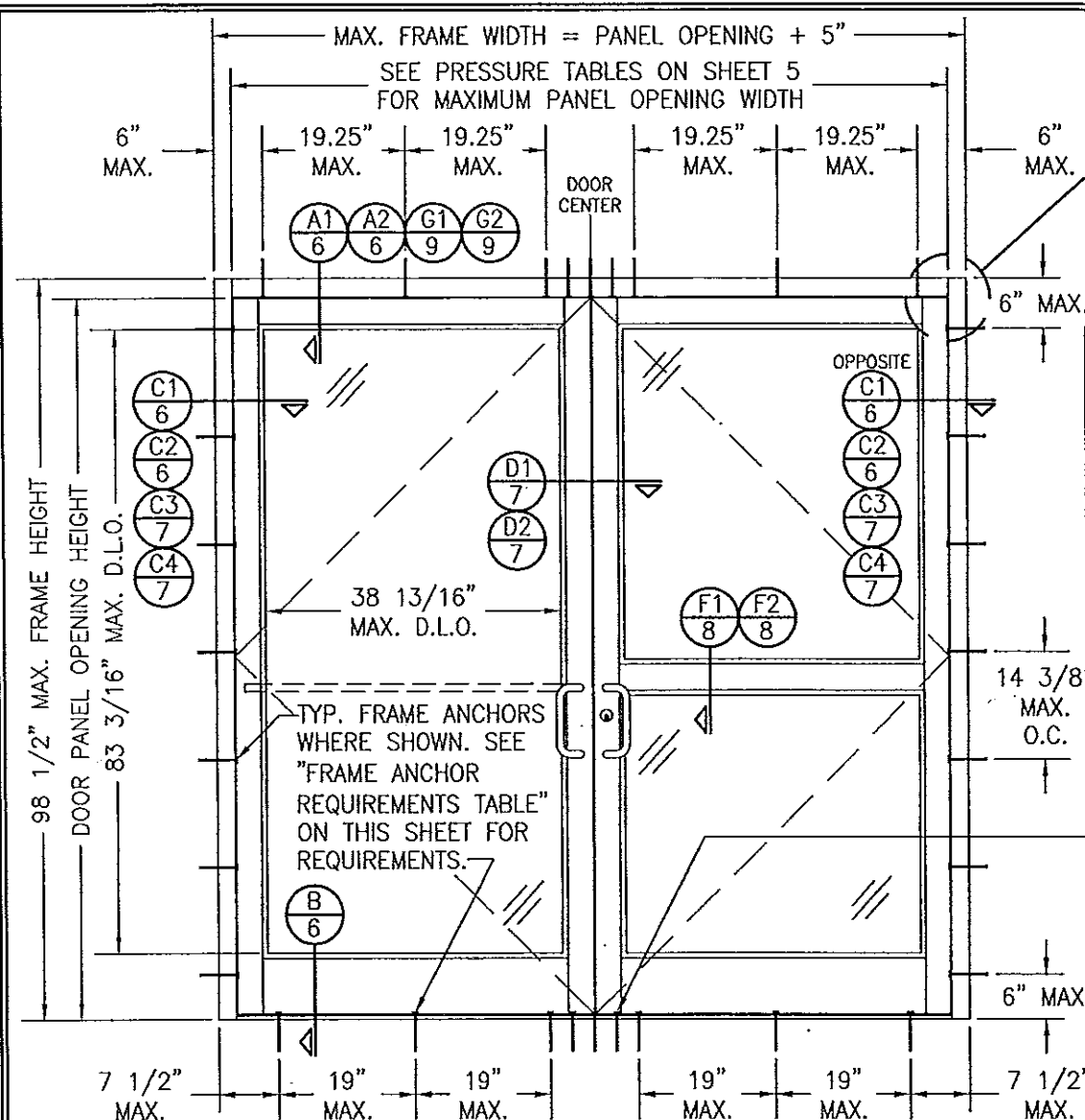
13. Laboratory compliance letter for Test Reports No.'s **HTL-G049-1005-06** and **HTL-G049-0111-06**, issued by Hurricane Test Laboratory, LLC, dated 01/31/07 and 01/20/06, both signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 07-0416.02)
14. Laboratory compliance letter for Test Report No. **HTL-G049-1201-05**, issued by Hurricane Test Laboratory, LLC, dated 01/24/06, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 06-0803.05)

G. OTHERS

1. Notice of Acceptance No. **11-1013.03**, issued to Kawneer Company, Inc. for their Series "350IR Outswing Wet Glazed Aluminum Storefront Door - L.M.I.", approved on 03/15/12 and expiring on 02/08/17.



Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14-0602.03
Expiration Date: February 08, 2017
Approval Date: December 24, 2014



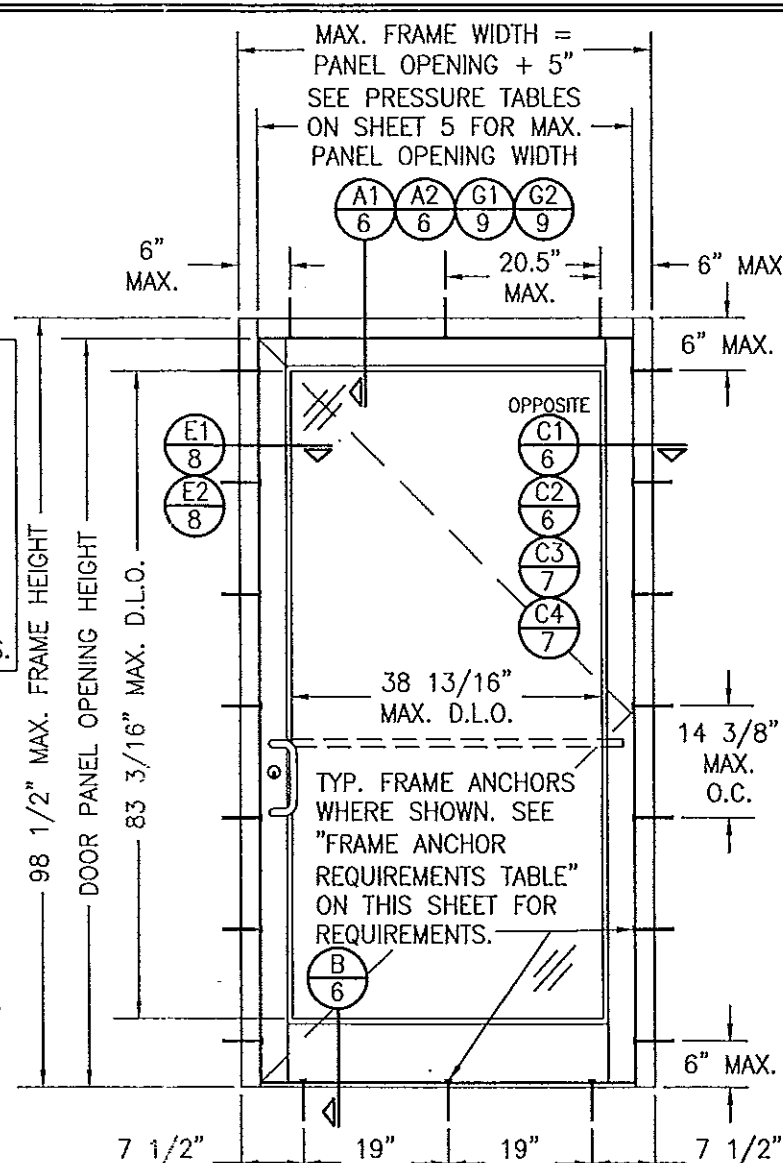
EXTERIOR ELEVATION: DOUBLE DOOR WITH STORE FRONT FRAMING & STANDARD INSTALLATION

SCALE: 1/2" = 1'-0"
(APPLICABLE WITH ALL HINGE TYPES)

SEE CORNER CONSTRUCTION DESCRIPTIONS ON THIS SHEET

TO AVOID CONFUSION, LOCK CONDITIONS ARE NOT CALLED OUT/SPECIFIED IN THE ELEVATIONS. SEE PRESSURE TABLES ON SHEET 5 & PARTS LIST ON SHEET 13 FOR ALL LOCK OPTIONS.

AT HEAD & SILL, CLUSTER ANCHORS AS SHOWN AT MEETING STILE ENDS SPACED 3" APART. CLUSTER 6 ANCHORS WITH ANCHOR TYPE A; CLUSTER 5 ANCHORS WITH ANCHOR TYPES B, C, D & F (ANCHOR "E" IS NOT APPLICABLE AT HEAD & SILL).



EXTERIOR ELEVATION: SINGLE DOOR WITH STORE FRONT FRAMING & STANDARD INSTALLATION

SCALE: 1/2" = 1'-0"
(APPLICABLE WITH ALL HINGE TYPES)

CORNER & FRAME END CONSTRUCTION:

HEAD IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH THREE (3) NO. 12 X 1" S.S. PHTFS FASTENERS THROUGH THE SIDE MEMBER INTO THE HEAD MEMBER SCREW SPLINES & SEALED WITH SILICONE.
FRAME HEAD CORNER (TRIFAB 450/451 FRAME): HEAD IS SQUARE CUT, BUTTED TO SIDE, SECURED WITH SHEAR BLOCK ITEM# 16 (SEE SECTION G/5 & M/6) & SEALED WITH SILICONE.
FRAME SILL CORNER: SILL IS SQUARE CUT, BUTTED TO SIDE, SECURED TO THE SIDE MEMBER USING A PIVOT ASSEMBLY OR STEEL CLIP, FASTENED WITH THREE (3) NO. 12-24 X 3/8" FHMS AT THE FRAME & TWO (2) NO. 12-24 X 3/8" FHMS AT THE SILL, & SEALED WITH SILICONE.
DOOR PANEL CORNERS: VERTICAL STILES RUN THROUGH AND ARE SECURED TO THE RAILS AT THE TOP & BOTTOM WITH 1/4" THICK EXTRUDED CHANNELS. EACH CHANNEL IS FASTENED TO THE STILE & RAIL WITH 1/4-20 X 3/4" PHMS & 3/16" THICK STEEL NUT PLATES. THE INTERSECTION OF EACH CORNER JOINT WAS WELDED WITH A 1/2" DIA. PLUG WELD AND A 1 1/8" LONG FILLET WELD AT BOTH WEBS OF THE RAIL.
MIDRAIL ENDS: SECURED TO THE VERTICAL RAILS WITH 4 EACH 1 1/8" LONG FILLET WELDS

ALLOWABLE DESIGN PRESSURE
SEE SHEET 5

(*) THESE DOORS ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR. UNLESS UNITS ARE INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION, UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG WHERE-BY THE OVERHANG(OH) RATIO IS EQUAL TO OR MORE THAN 1.0 PER FBC CHAPTER 24.

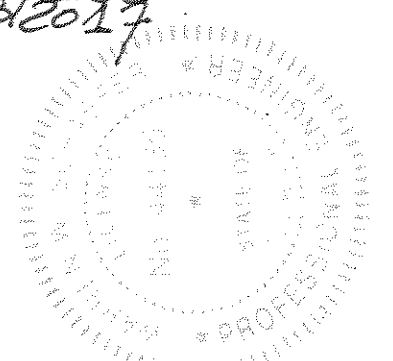
GENERAL NOTES:

1. THESE DOOR SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT DOORS.
5. THESE DOOR SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE DOORS.
7. ALL ANCHORS SECURING DOOR FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF Kd = 0.85 MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR Cd = 1.6 WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.

FRAME ANCHOR REQUIREMENTS TABLE				
FRAME & SILL ANCHORS				
ANCHOR TYPE	OPENING TYPE (SUBSTRATE)	JAMB TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
A	2X WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 14 SMS SCREW	1 1/4"	3/4"
B	MIN. 16 GA. 50 KSI METAL STUD	(2) NO. 12 SELF DRILL/TAPPING SCREW	FULL	1/2"
C	MIN. 0.22" THICK A36 STEEL	(2) 1/4-20 SELF DRILL/TAPPING SCREW	FULL	1/2"
D	MIN. 3000 P.S.I. CONCRETE	(1) 1/4" CONCRETE SCREW	1 3/4"	2 1/2"
E	MIN. C90 CONCRETE FILLED BLOCK	(1) 1/4" CONCRETE SCREW	1 1/2"	2 1/2"
F	CURTAIN WALL	(2) 1/4-20 SELF DRILL/TAPPING SCREW	FULL	1/2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).
(2) SELF DRILLING & SELF TAPPING SCREWS SHALL BE MIN. GRADE 5 CORROSION RESISTANT STEEL

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 14-0602-03
Expiration Date 02/08/2017
By: [Signature]
Miami Dade Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 11/10/05	
NO.	REVISION	DESCRIPTION	DATE
BT	1	ADDED WOOD SUBSTRATE	01/13/09
BT	2	TO 90 PSF	01/13/09
BT	3	NEW GLAZING & LOCKS	08/28/09
BT	4	UPDATE PER NEW TESTING	02/11/11
BT	5	UPDATE PER NEW TESTING	07/30/14

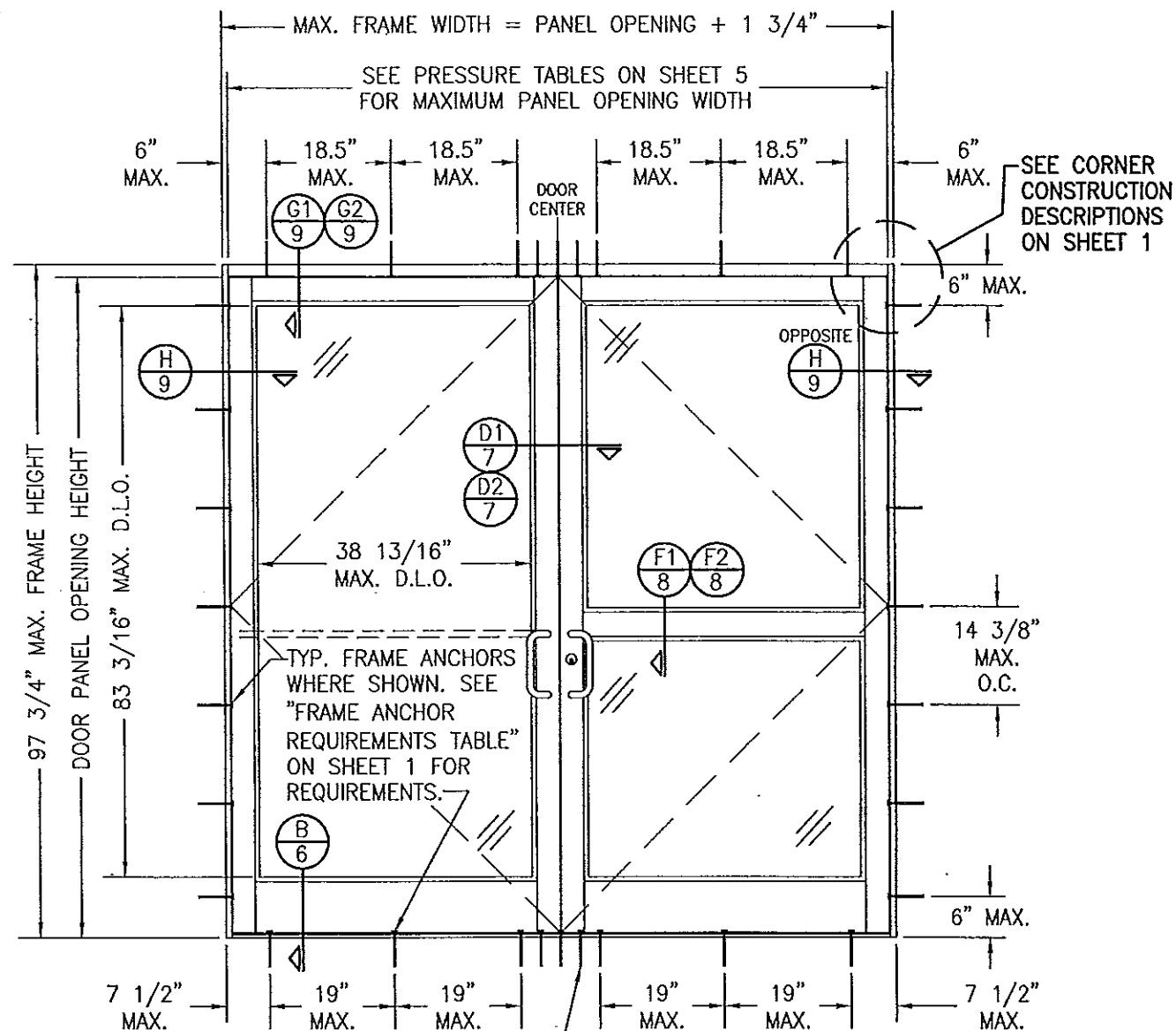
DRAWING TITLE: 350/500R OUTSWING ALUMINUM STOREFRONT DOORS - LMI WET GLAZED

MANUFACTURER: KAWNEER COMPANY, INC.
555 GUTHRIE COURT
NORCROSS, GA 30092
770-449-5555

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH, FL 33418
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION: MAY 19 2014

DRAWING NO. 1460
SHEET NO. 1 OF 13

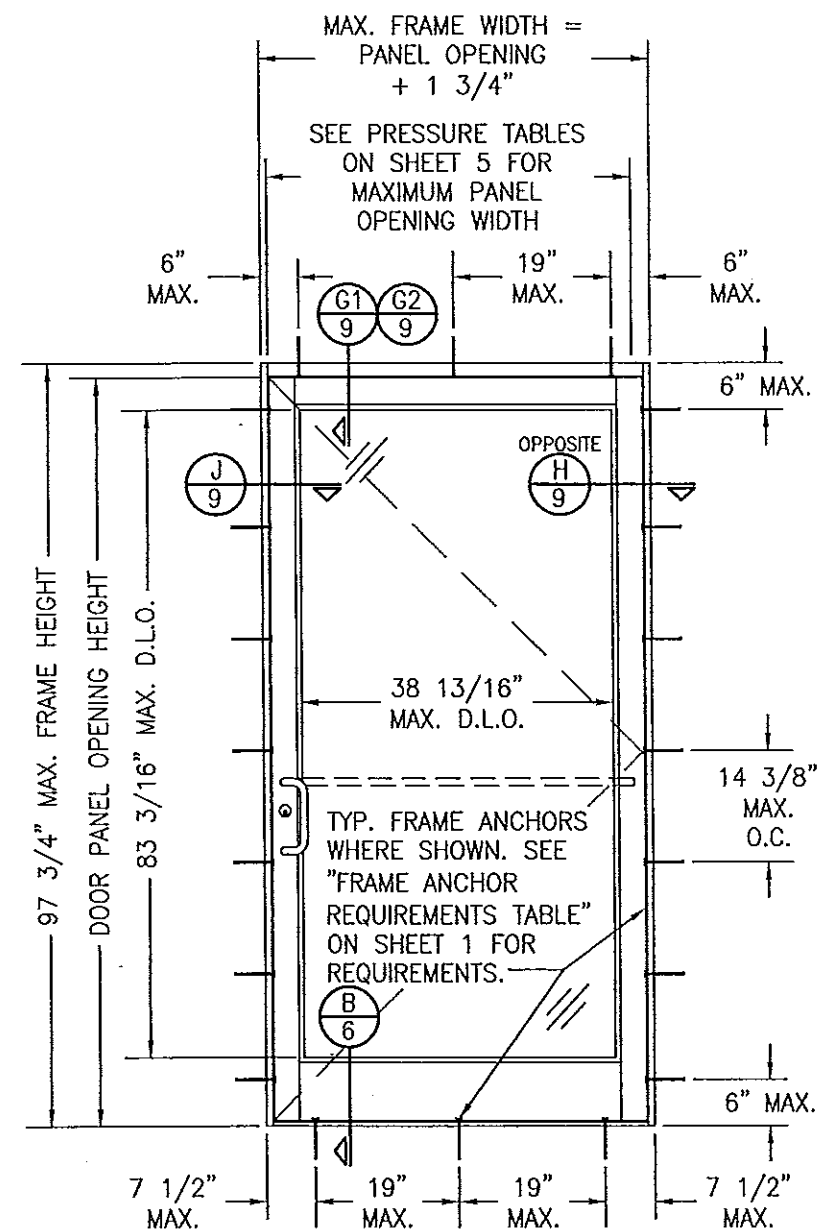


**EXTERIOR ELEVATION:
DOUBLE DOOR WITH STANDARD
FRAMING & STANDARD INSTALLATION**

SCALE: 1/2" = 1'-0"

(APPLICABLE WITH ALL HINGE TYPES)

AT HEAD & SILL, CLUSTER ANCHORS AS SHOWN AT MEETING STILE ENDS SPACED 3" APART. CLUSTER 6 ANCHORS WITH ANCHOR TYPE A; CLUSTER 5 ANCHORS WITH ANCHOR TYPES B, C, D & F (ANCHOR "E" IS NOT APPLICABLE AT HEAD & SILL).



**EXTERIOR ELEVATION:
SINGLE DOOR WITH STANDARD
FRAMING & STANDARD INSTALLATION**

SCALE: 1/2" = 1'-0"

(APPLICABLE WITH ALL HINGE TYPES)

ALLOWABLE DESIGN PRESSURE
SEE SHEET 5

PRODUCT REVISED

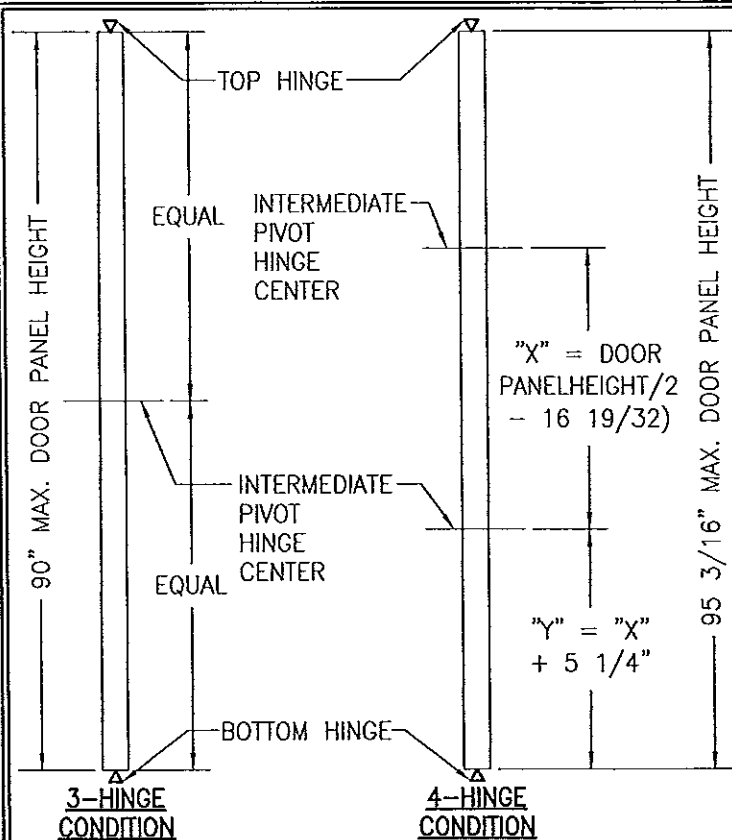
as complying with the Florida
Building Code

Acceptance No. 14-0602-93
Expiration Date 02/08/2017

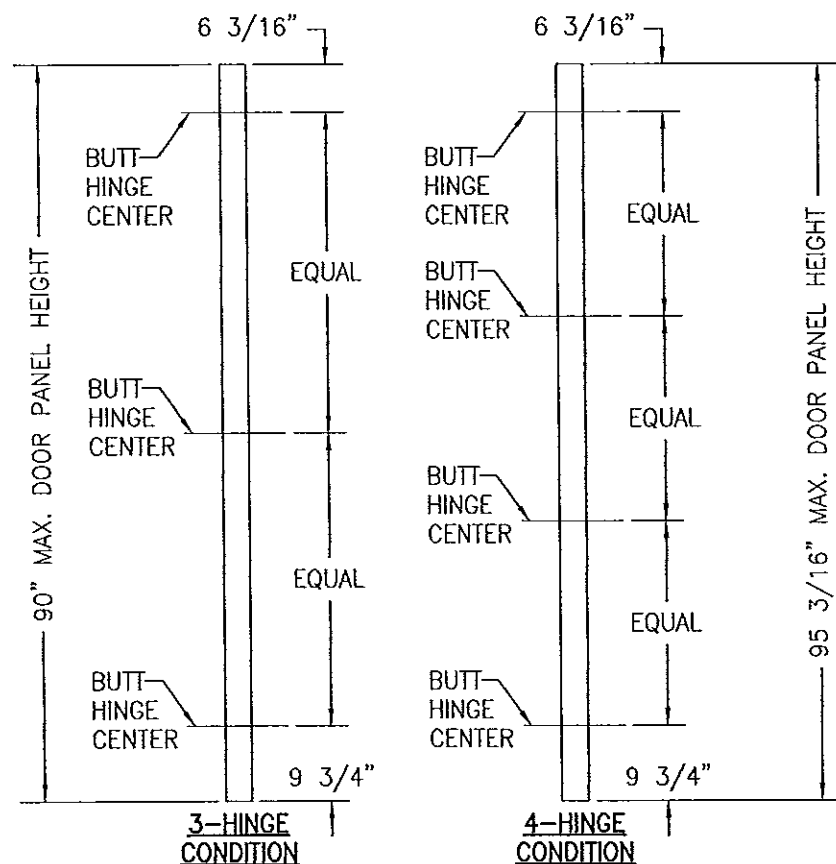
By *[Signature]*
Miami Dade Product Control



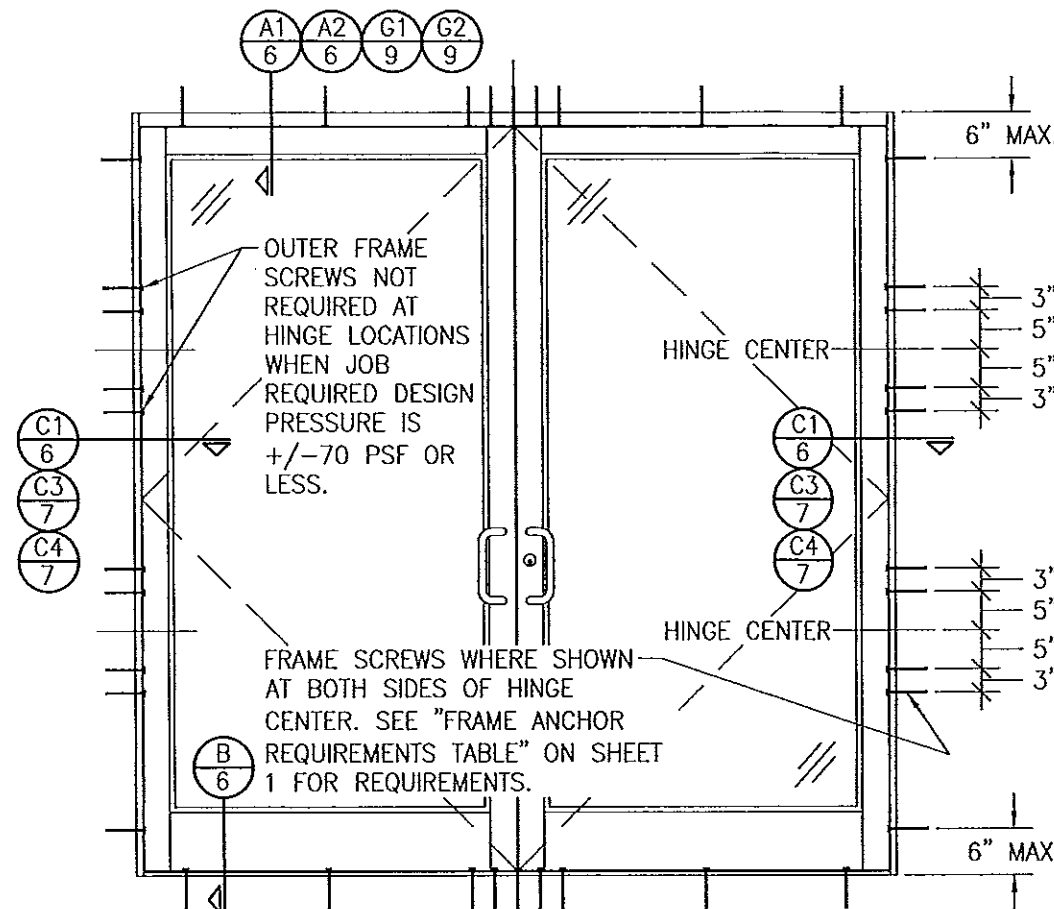
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 11/10/05	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE 350/500R OUTSWING ALUMINUM STOREFRONT DOORS - LMI WET GLAZED			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION MAY 19 2014			
DRAWING NO. 1460		REV. F	
SHEET NO. 2 OF 13			



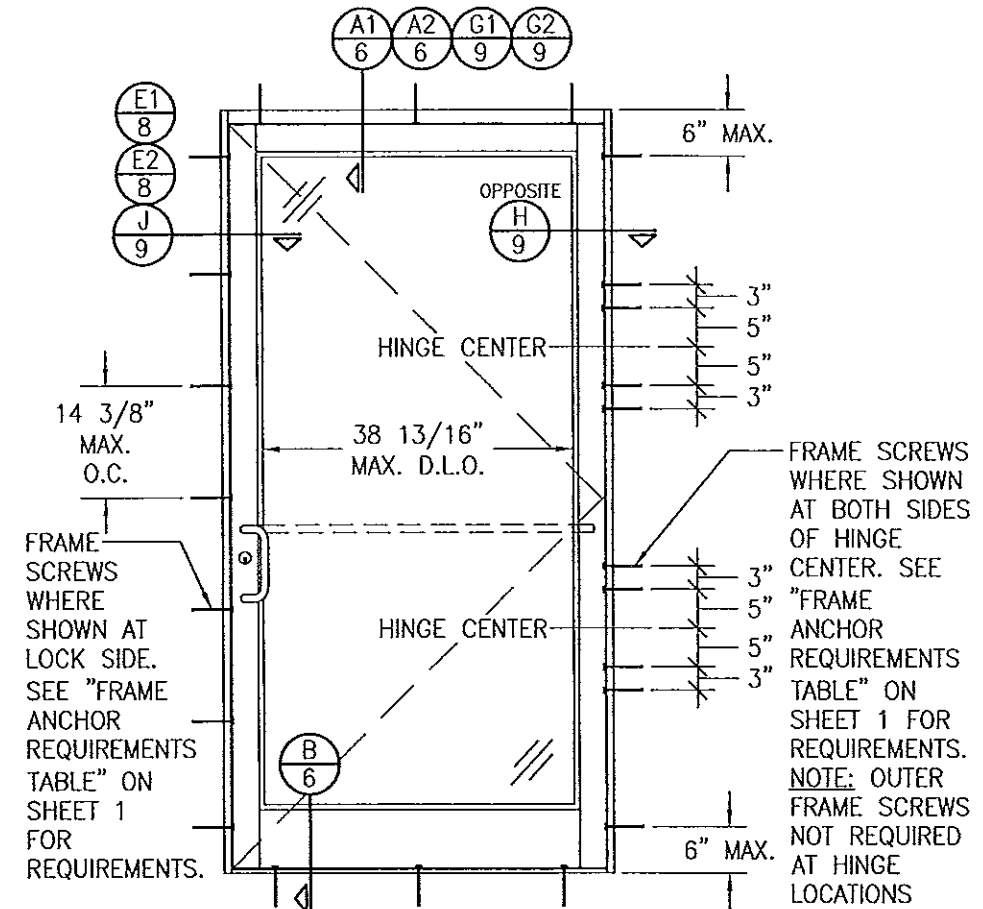
**PIVOT HINGE
LOCATION DIAGRAMS**
(APPLICABLE TO ALL DOORS)



**BUTT HINGE
LOCATION DIAGRAMS**
(APPLICABLE TO ALL DOORS)



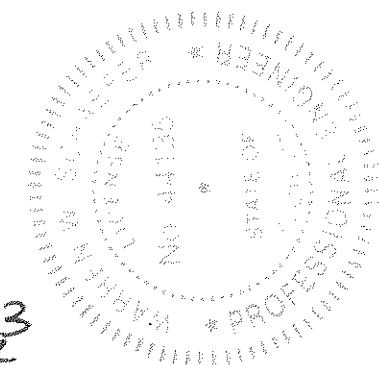
**EXTERIOR ELEVATION:
DOUBLE DOOR WITH ALTERNATE
INSTALLATION CONDITION**
SCALE: 1/2" = 1'-0"
(APPLICABLE WITH BUTT & PIVOT HINGE DOORS ONLY)
(FOR DOOR DETAIL & HARDWARE NOT SHOWN, SEE
ELEVATIONS ON SHEETS 1 & 2)
(ELEVATION SHOWN WITH STANDARD FRAMING.
STOREFRONT FRAMING ALSO APPLIES)



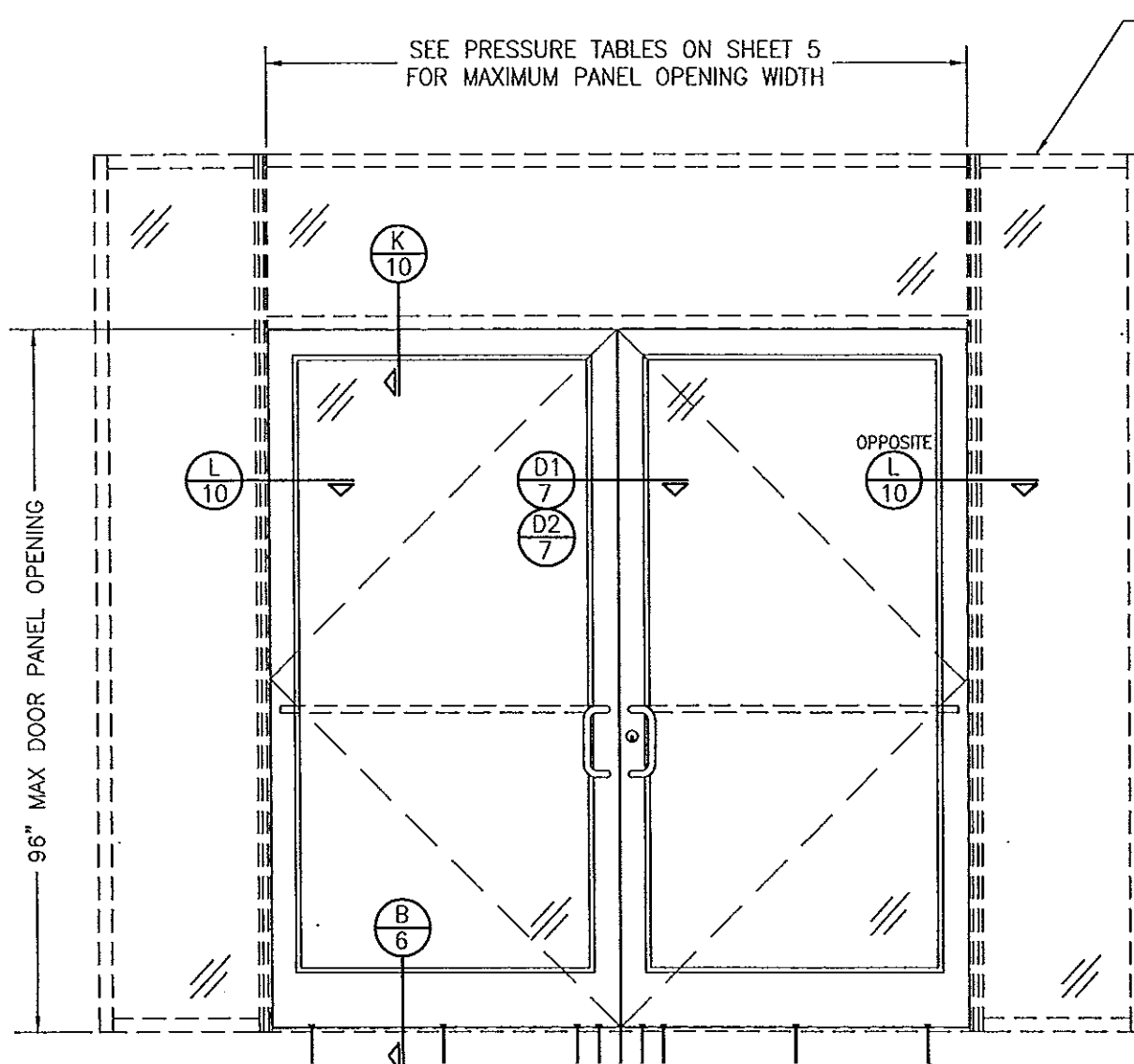
**EXTERIOR ELEVATION:
SINGLE DOOR WITH ALTERNATE
INSTALLATION CONDITION**
SCALE: 1/2" = 1'-0"
(APPLICABLE WITH BUTT & PIVOT HINGE DOORS ONLY)
(FOR DOOR DETAIL & HARDWARE NOT SHOWN, SEE
ELEVATIONS ON SHEETS 1 & 2)
(ELEVATION SHOWN WITH STANDARD FRAMING.
STOREFRONT FRAMING ALSO APPLIES)

ALLOWABLE DESIGN PRESSURE
SEE SHEET 5

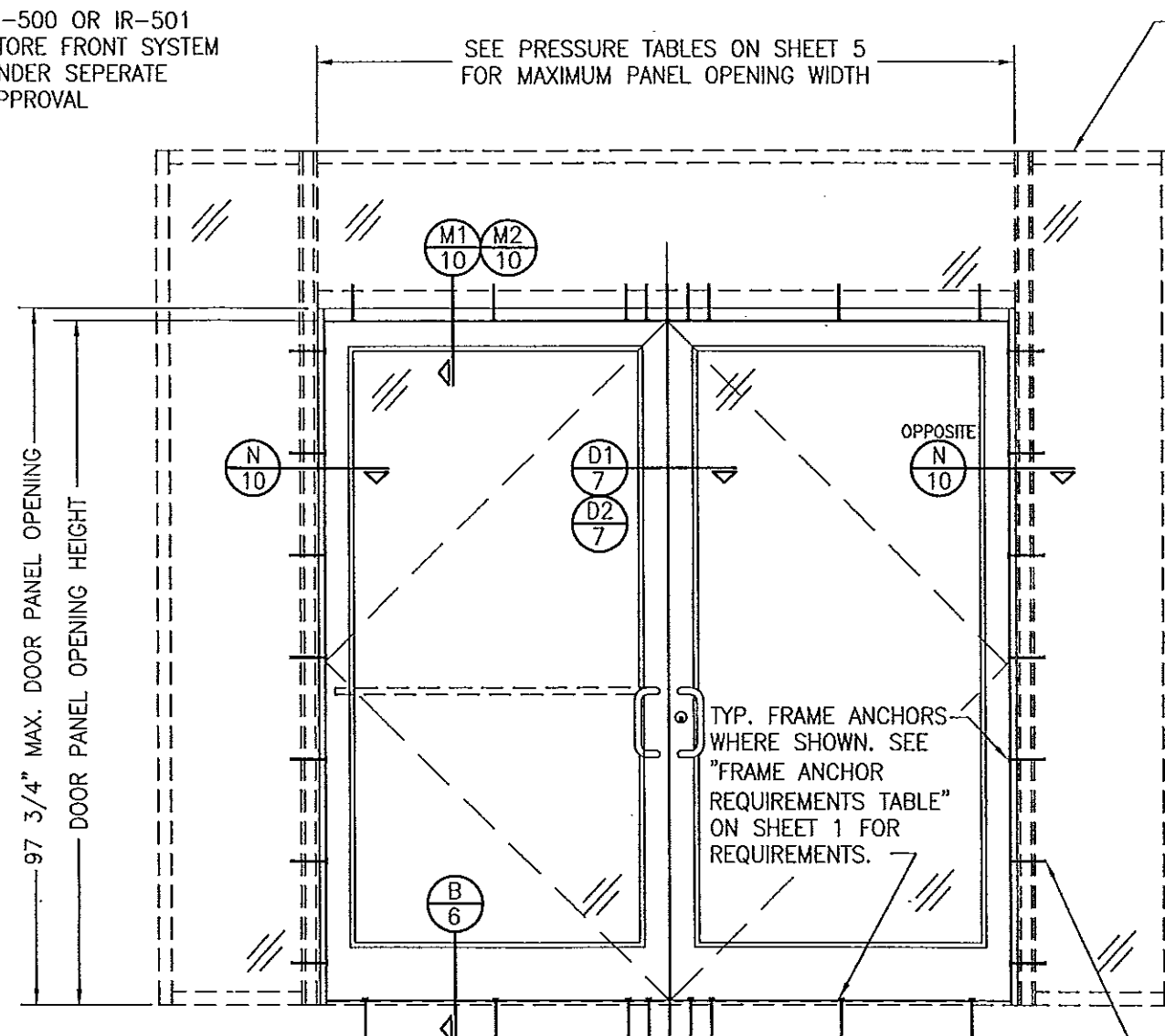
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-0602.03
Expiration Date 02/28/2017
By [Signature]
Miami Dade Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 11/10/05	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: 350/500IR OUTSLING ALUMINUM STOREFRONT DOORS -			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION MAY 19 2014		DRAWING NO. 1460	
WARDEN W. SCHAEFER, P.E. P.E. NO. 44135		REV. F	
SHEET NO. 3		OF 13	



EXTERIOR ELEVATION:
DOORS INSIDE IR-500 OR IR-501 STORE FRONT SYSTEM
SCALE: 1/2"=1'-0"



EXTERIOR ELEVATION:
DOORS INSIDE 1600 SYSTEM 1 CURTAIN WALL
SCALE: 1/2"=1'-0"

NOTES:

1. FOR DETAILS NOT SHOWN, SEE ELEVATIONS ON SHEETS 1 & 3.
2. DOUBLE DOOR SHOWN; SINGLE DOOR CONDITION ALSO APPLIES.
3. FOR STORE FRONT FRAMING REQUIREMENTS & INSTALLATION, SEE RESPECTIVE STORE FRONT APPROVAL.
4. LESSER ALLOWABLE PRESSURE RATING OF THE DOORS & STOREFRONT SHALL CONTROL FOR THE OVERALL ASSEMBLY.

SEE ELEVATION
SHEET 1 FOR SILL
ANCHOR
REQUIREMENTS &
ANCHOR LOCATIONS

ALLOWABLE DESIGN PRESSURE
SEE SHEET 5

NOTES:

1. FOR DETAILS NOT SHOWN, SEE ELEVATIONS ON SHEETS 2 & 3.
2. DOUBLE DOOR SHOWN; SINGLE DOOR CONDITION ALSO APPLIES.
3. FOR STORE FRONT FRAMING REQUIREMENTS & INSTALLATION, SEE RESPECTIVE STORE FRONT APPROVAL.
4. LESSER ALLOWABLE PRESSURE RATING OF THE DOORS & STOREFRONT SHALL CONTROL FOR THE OVERALL ASSEMBLY.

SEE ELEVATION
SHEET 2 FOR
ANCHOR
REQUIREMENTS
& ANCHOR
LOCATIONS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-0602.03
Expiration Date 03/08/2017
By [Signature]
Miami Dade Product Control

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 11/10/05	
DATE	BY	REVISION	DESCRIPTION
DRAWING TITLE 350/500IR OUTSWING ALUMINUM STOREFRONT DOORS - LMI WET GLAZED			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION MAY 19 2014		DRAWING NO. 1460 SHEET NO. 4 OF 13	
WARREN W. SCHAEFER, P.E. P.E. NO. 44135		REV. F	

ALLOWABLE DESIGN PRESSURE (AS RESTRICTED BY GLASS & GLAZING)				
MAXIMUM DOOR PANEL OPENING WIDTH (IN.)		APPLICABLE GLAZING DETAIL	APPLICABLE GLASS OPTIONS	ALLOWABLE PRESSURE (+/-PSF)
DOUBLE DOOR	SINGLE DOOR			
96	48	1	1 & 2	65
96	48	2	1, 2, 3 & 5	70
96	48	2 & 3	4 & 6	90
96	48	3	7 & 8	60
84	42	1	3 & 4	90

ALLOWABLE DESIGN PRESSURE (AS RESTRICTED BY PANIC DEVICE LOCK CONDITIONS)			
MAXIMUM DOOR PANEL OPENING WIDTH (IN.)		PANIC DEVICE	ALLOWABLE PRESSURE (+/-PSF)
DOUBLE DOOR	SINGLE DOOR		
96	48	SARGENT AD8400	70
96	48	ADAMS RITE G86	70
96	48	CALIBRE 9100	70
96	48	VON DUPRIN HH9947	65
96	48	JACKSON 2086	90
84	42	KAWNEER 1686	90
96	48		70
96	48	PANELINE CR-90	70
96	48	SARGENT 8400	65
96	48	CORBIN RUSSWIN ED5200S(A)	50
72	36	FALCON HH1690	65

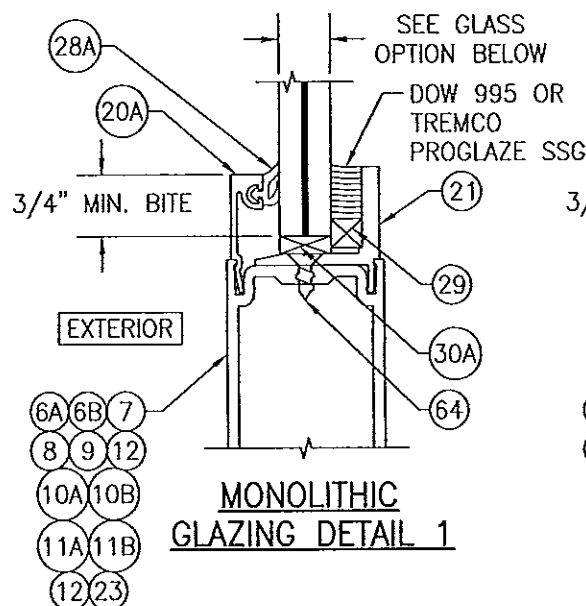
PRESSURE TABLE NOTES (ALL TABLES)	
1.	CONDITIONS IN THESE TABLES ARE APPLICABLE FOR ALL DOORS TO THEIR MAXIMUM PANEL HEIGHT OF 96".
2.	SEE GLAZING DETAILS ON THIS SHEET FOR GLAZING DETAILS & GLASS OPTIONS APPLICABLE TO THESE TABLES.
3.	SEE ELEVATIONS ON THIS SHEET FOR VIEW OF DOOR PANEL OPENING HEIGHT & WIDTH.
4.	THE LESSER PRESSURE IN ANY ONE TABLE SHALL CONTROL AS THE ALLOWABLE PRESSURE ON THE DOOR ASSEMBLY.

ALLOWABLE DESIGN PRESSURE (AS RESTRICTED BY BUTT & PIVOT HINGE QUANTITY)	
HINGE QUANTITY PER PANEL	ALLOWABLE PRESSURE (+/-PSF)
3	70
4	90

NOTE: 3 HINGES PER DOOR PANEL IS ONLY APPLICABLE WITH DOOR OPENING PANEL HEIGHTS OF 90" & LESS

ALLOWABLE DESIGN PRESSURE (AS RESTRICTED BY MULTI-POINT LOCK CONDITIONS)			
MAXIMUM DOOR PANEL OPENING WIDTH (IN.)		LOCK CONDITION	ALLOWABLE PRESSURE (+/-PSF)
DOUBLE DOOR	SINGLE DOOR		
96	48	1	70
84	42	1	90
96	48	2	90

LOCK CONDITION 1:
ACTIVE DOOR: SEE ITEM #39 ON SHEET 13 FOR LOCK REQUIREMENTS
INACTIVE DOOR: SEE ITEM #40 ON SHEET 13 FOR LOCK REQUIREMENTS
LOCK CONDITION 2:
ACTIVE DOOR: SEE ITEM #41 ON SHEET 13 FOR LOCK REQUIREMENTS
INACTIVE DOOR: SEE ITEM #42 ON SHEET 13 FOR LOCK REQUIREMENTS



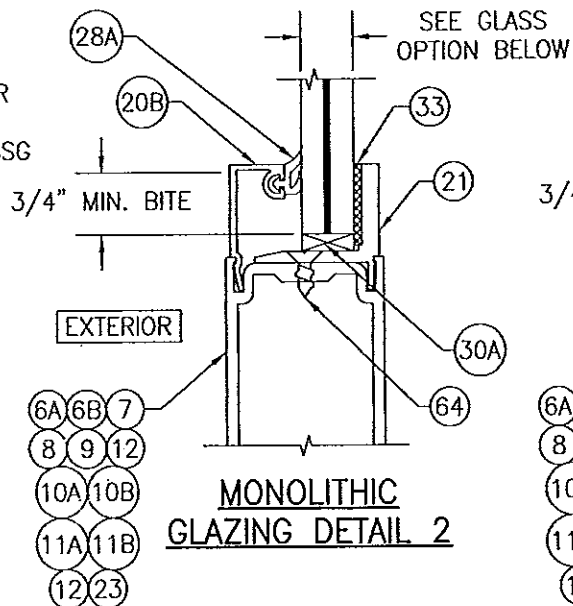
GLASS OPTIONS FOR GLAZING DETAIL 1:

OPTION 1: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.090 EASTMAN CHEMICAL CO. SAFLEX/1/4" HT. ST.)

OPTION 2: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.09 DUPONT BUTICITE PVB/1/4" HT. ST.)

OPTION 3: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.09 DUPONT SG/1/4" HT. ST.)

OPTION 4: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.077" EASTMAN CHEMICAL CO. SAFLEX CP/1/4" HT. ST.)



GLASS OPTIONS FOR GLAZING DETAIL 2:

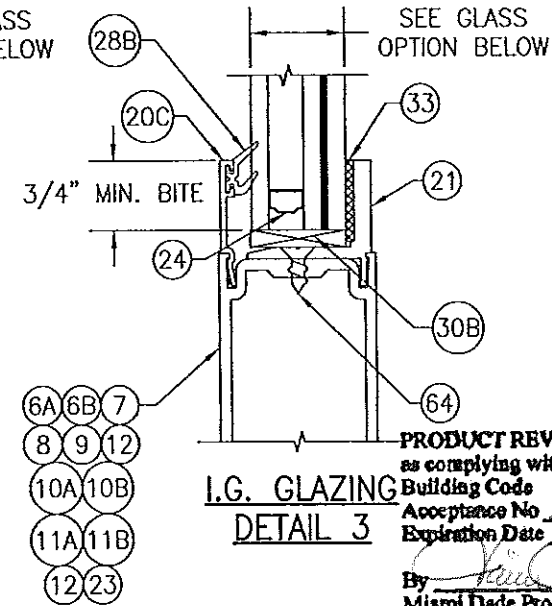
OPTION 1: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.090 EASTMAN CHEMICAL CO. SAFLEX/1/4" HT. ST.)

OPTION 2: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.09 DUPONT BUTICITE PVB/1/4" HT. ST.)

OPTION 3: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.09 DUPONT SG/1/4" HT. ST.)

OPTION 4: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.077" EASTMAN CHEMICAL CO. SAFLEX CP/1/4" HT. ST.)

OPTION 5: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.010" EASTMAN CHEMICAL CO. SAFLEX HP/1/4" HT. ST.)

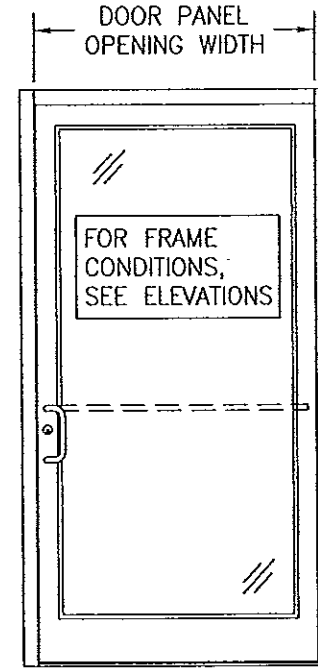
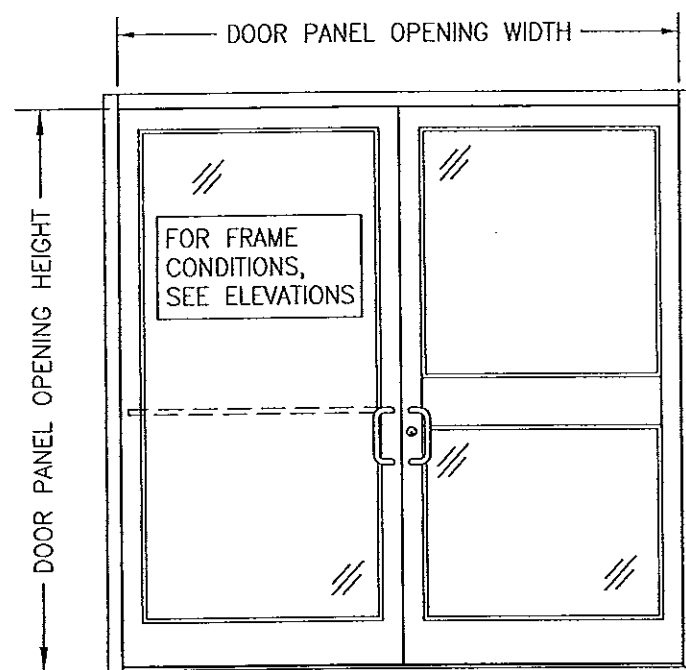


GLASS OPTIONS FOR GLAZING DETAIL 3:

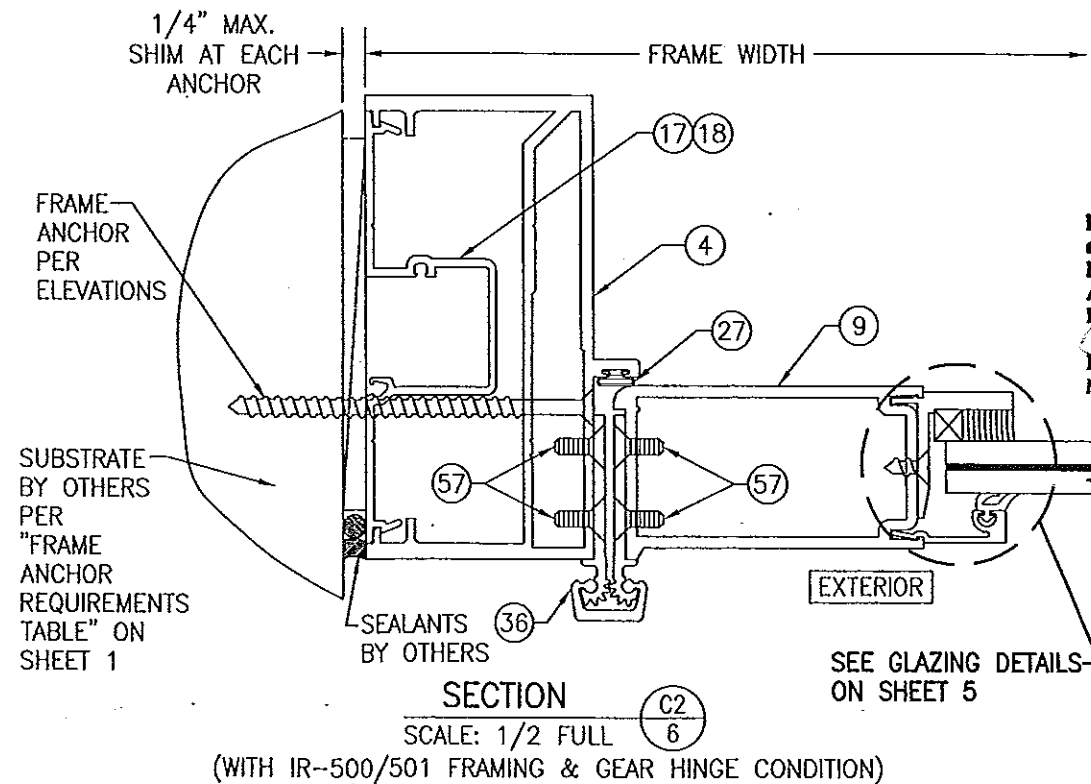
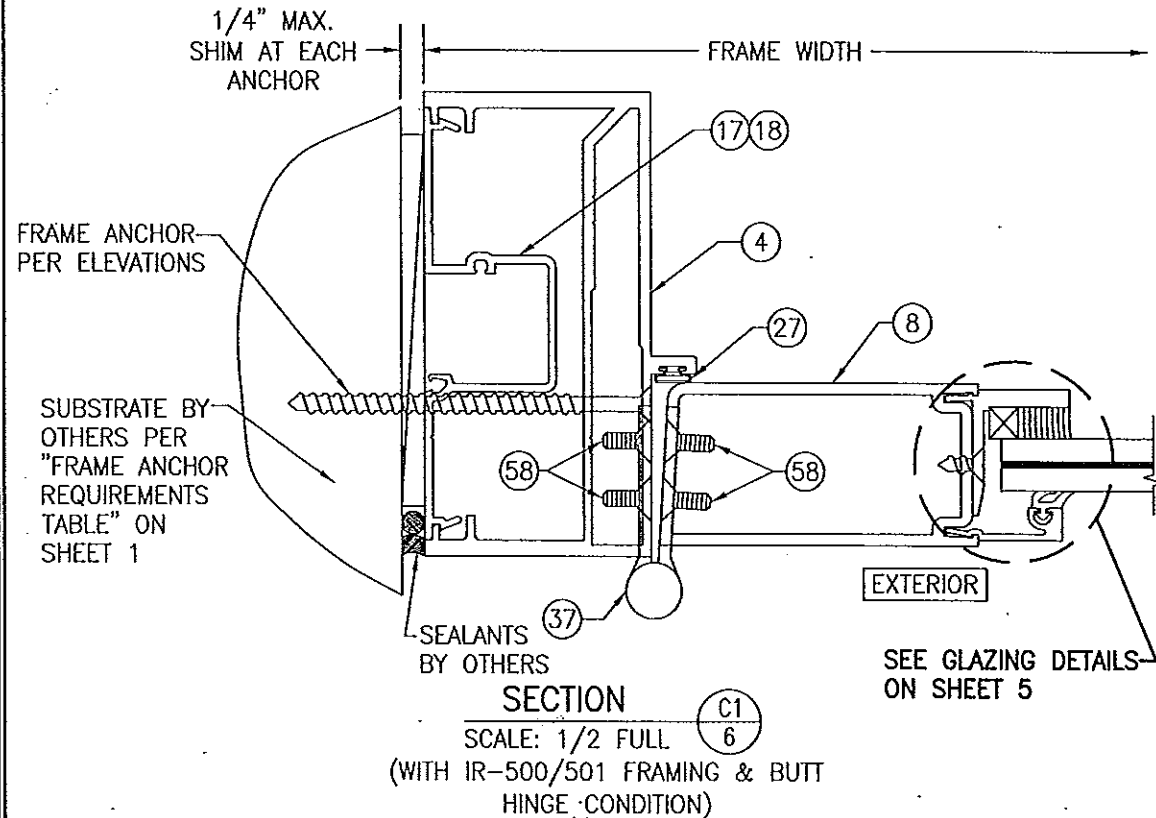
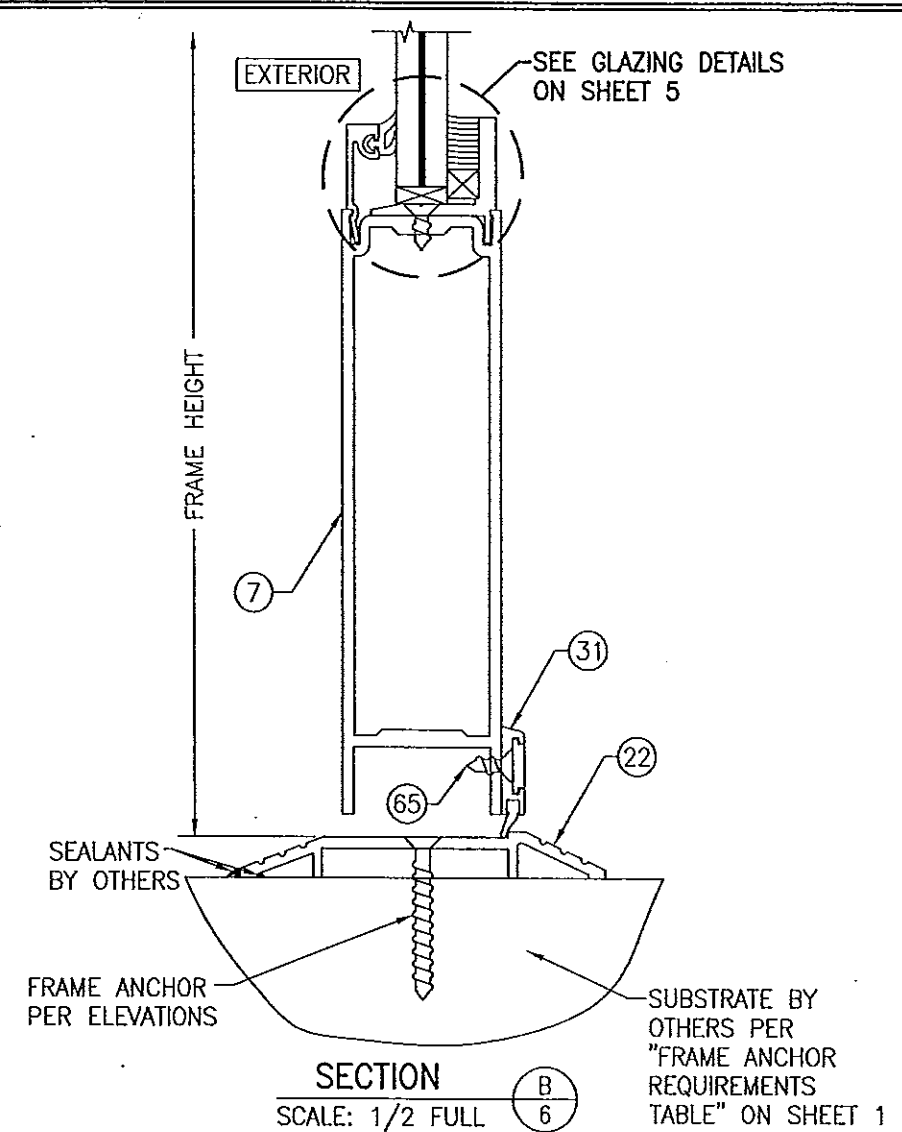
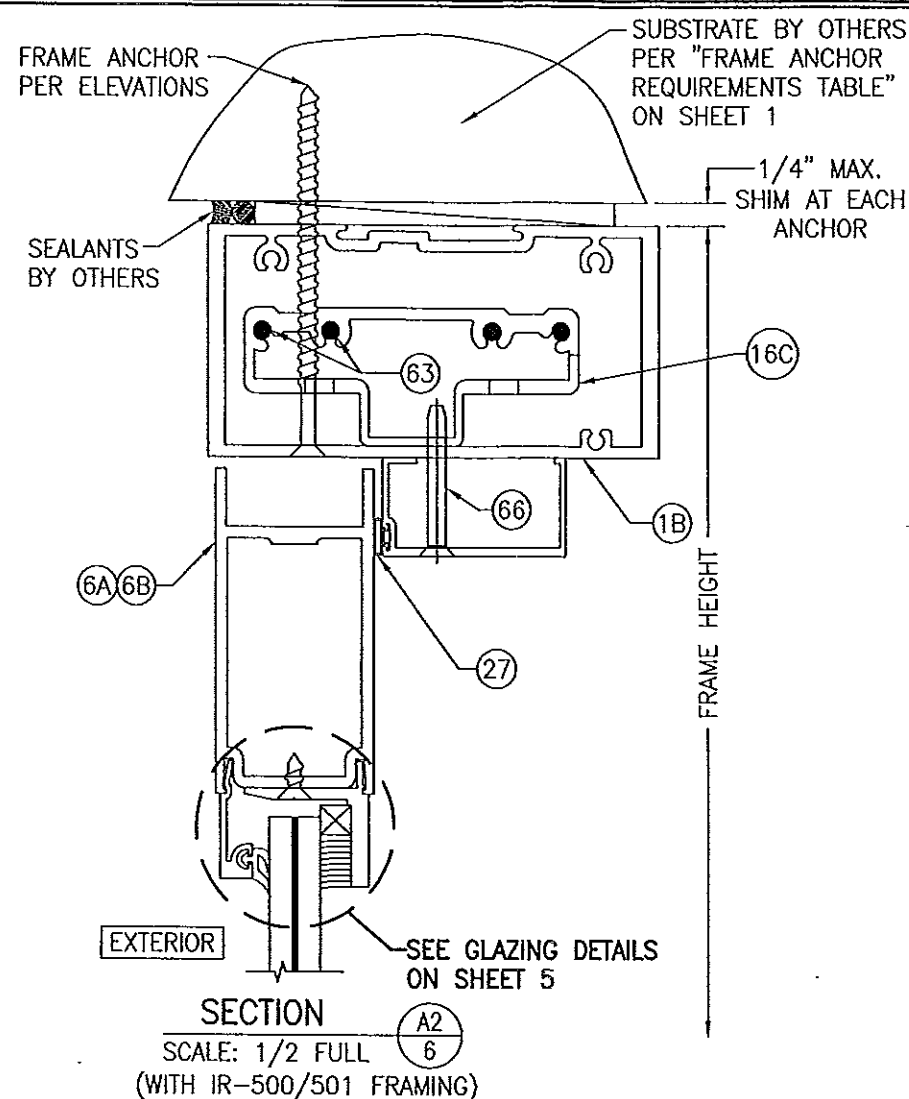
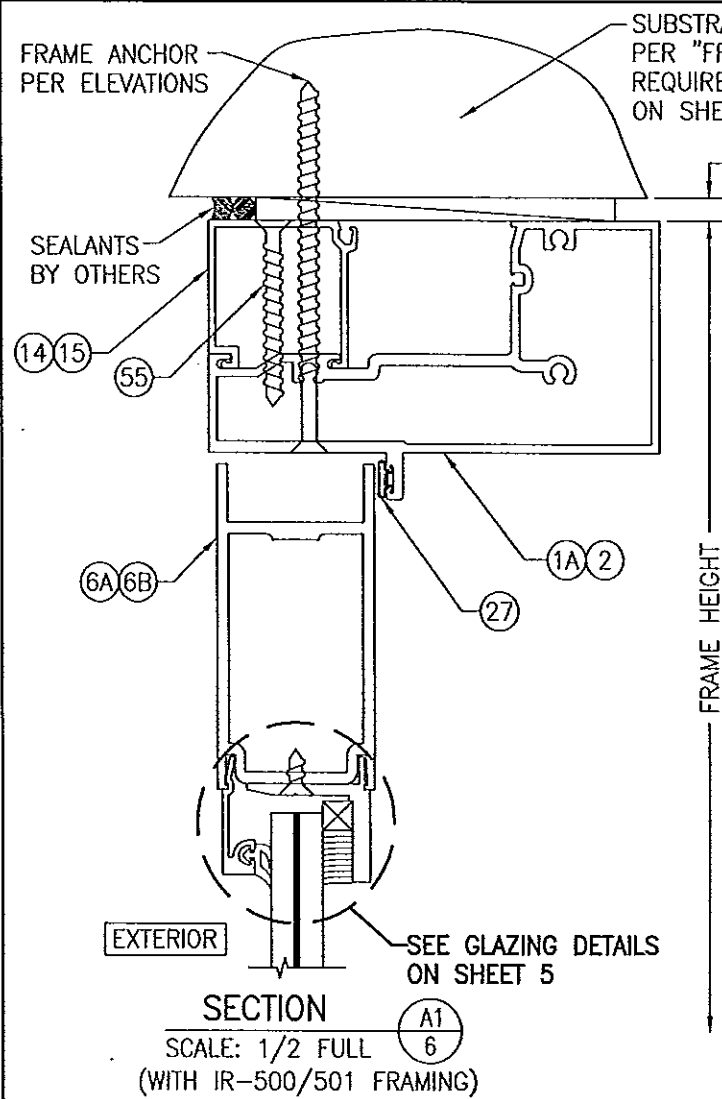
OPTION 6: 1" THICK I.G LAMINATED GLASS (3/16" TEMP EXTERIOR; 3/8" AIR SPACE; 3/16" HT. ST./0.090" DUPONT SG/3/16" HT. ST. INTERIOR)

OPTION 7: 1" THICK I.G LAMINATED GLASS (3/16" TEMP EXTERIOR; 3/8" AIR SPACE; 3/16" HT. ST./0.090" DUPONT BUTICITE PVB/3/16" HT. ST. INTERIOR)

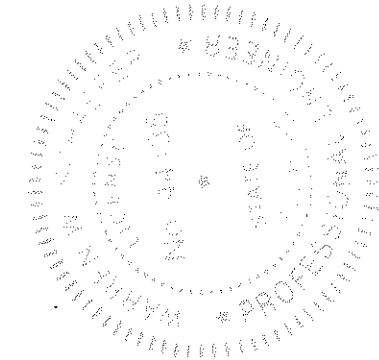
OPTION 8: 1" THICK I.G LAMINATED GLASS (3/16" TEMP EXTERIOR; 3/8" AIR SPACE; 3/16" HT. ST./0.090" EASTMAN CHEMICAL CO. SAFLEX/3/16" HT. ST. INTERIOR)



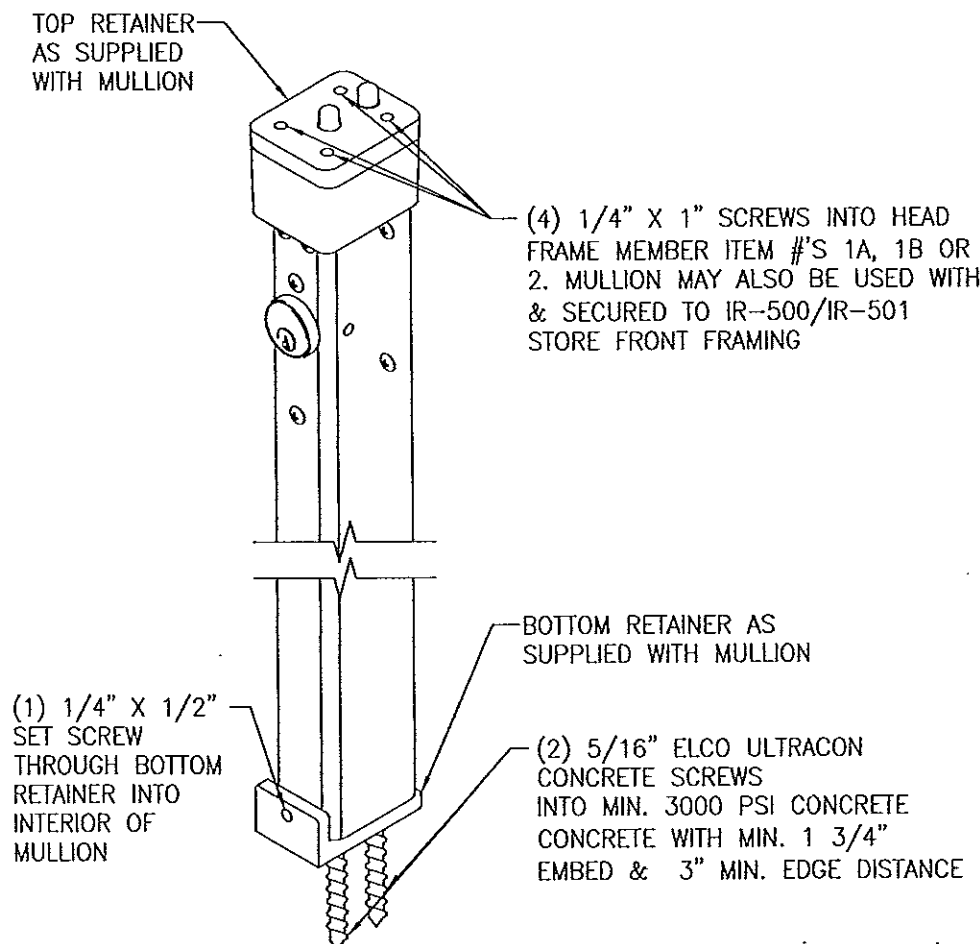
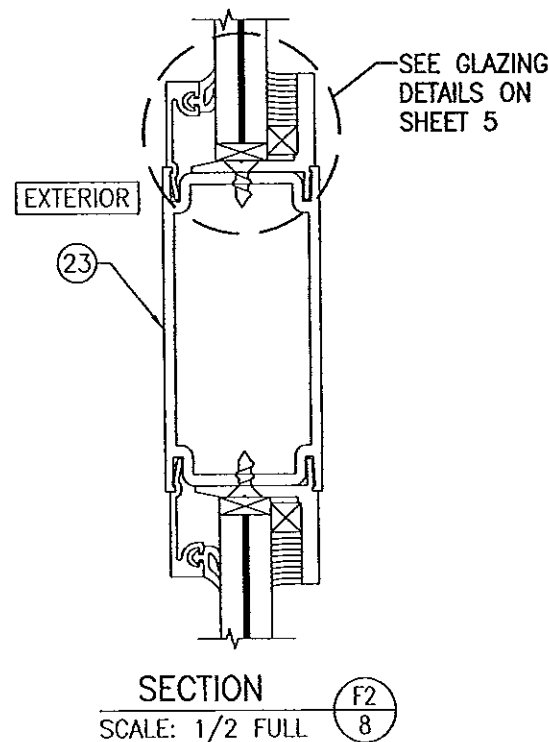
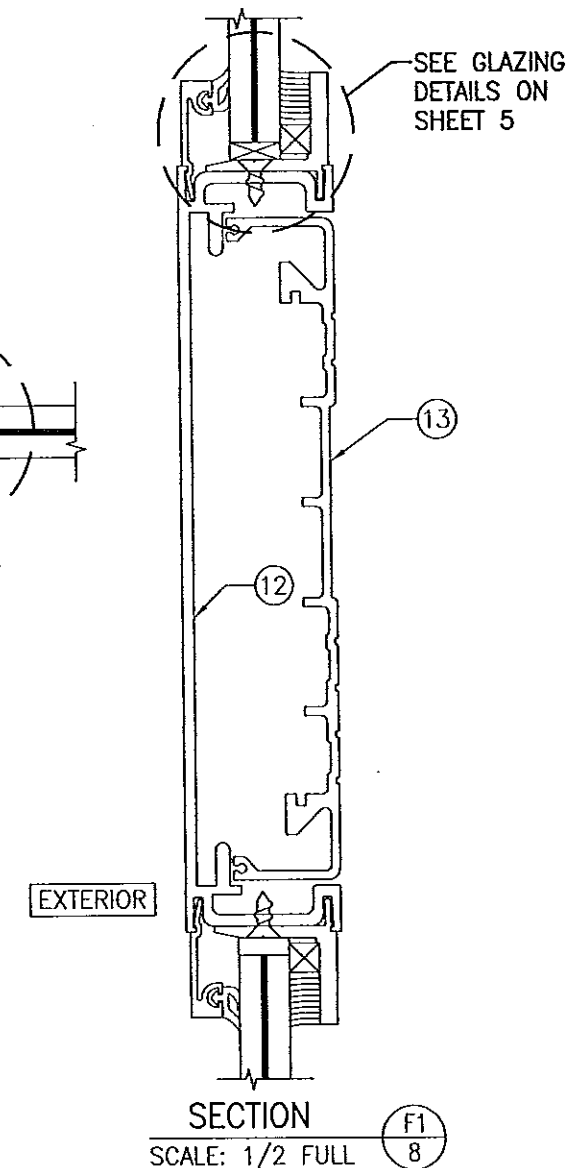
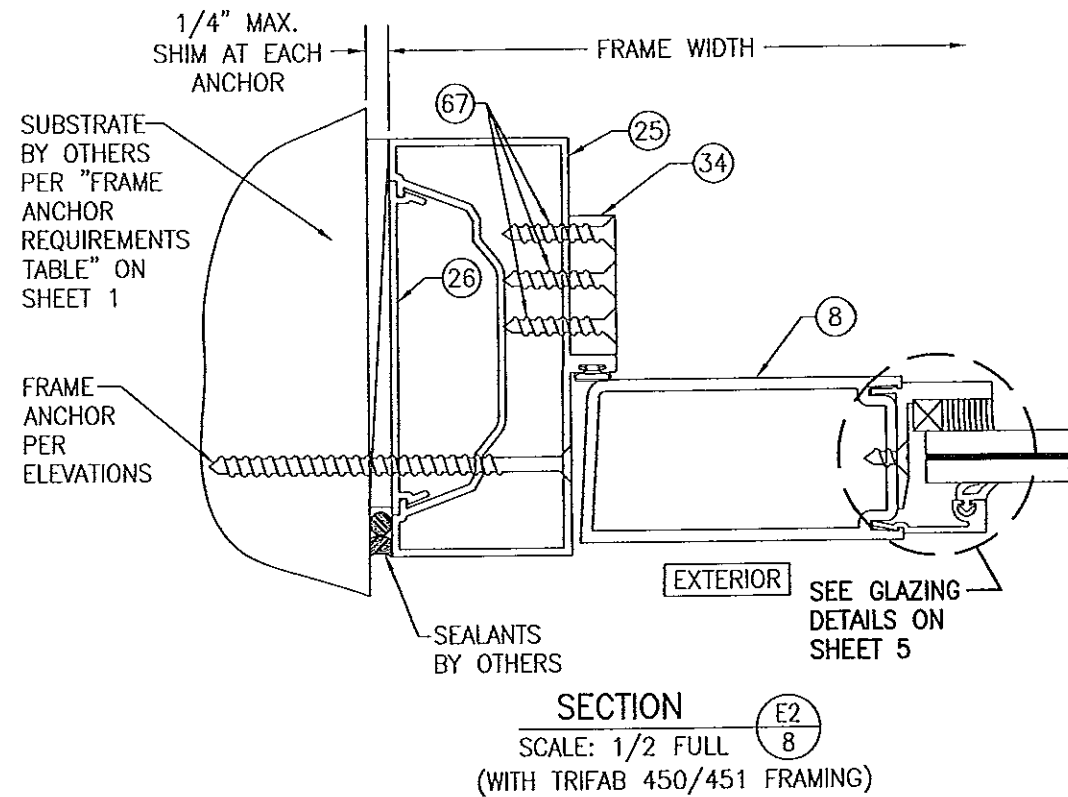
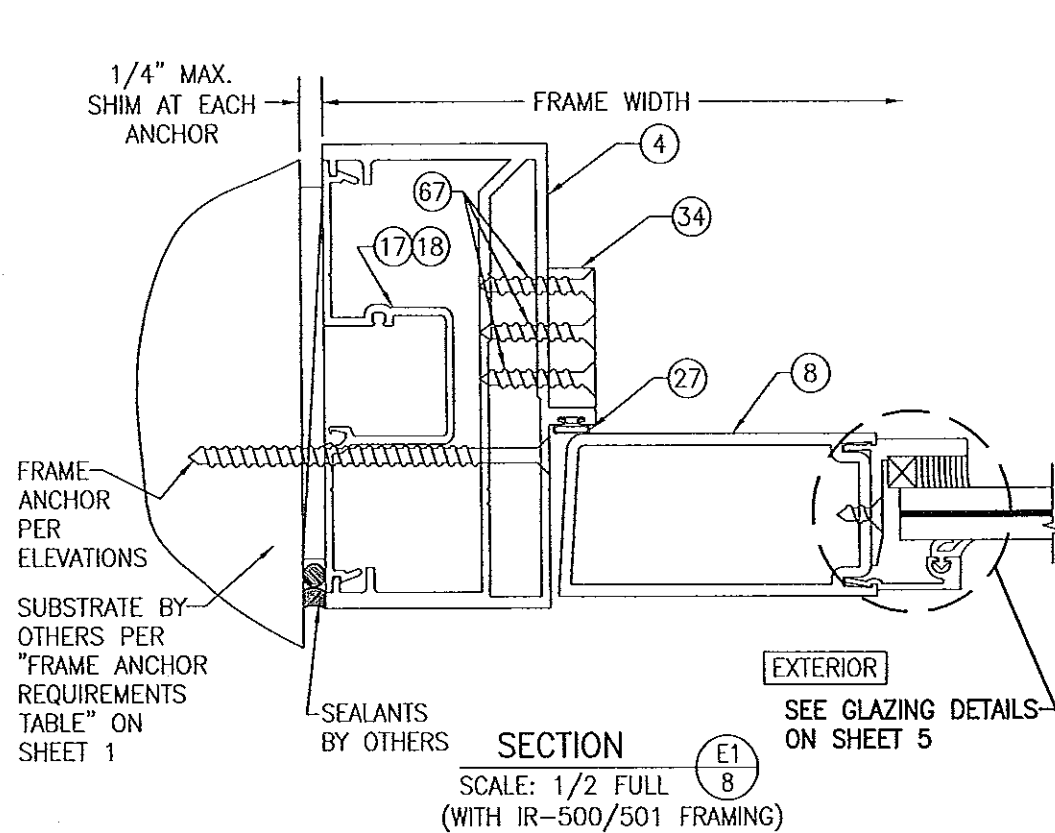
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 11/10/05	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: 350/500IR OUTSWING ALUMINUM STOREFRONT DOORS - LMI WET GLAZED			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: KAWNEER COMPANY, INC.	
7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418		555 GUTHRIDGE COURT, NORCROSS, GA 30092	
PHONE: 561-744-5424		770-449-5555	
CERTIFICATION: MAY 19 2014		P.E. NO. 44135	
DRAWING NO. 1460		REV. E	
SHEET NO. 5		OF 13	



PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 14-0602.03
 Expiration Date 02/08/2017
 By [Signature]
 Miami Dade Product Control



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 11/10/05
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE 350/500IR OUTSWING ALUMINUM STOREFRONT DOORS - LMI WET GLAZED	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555
CERTIFICATION MAY 19 2014	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1460	REV. D
SHEET NO. 6	OF 13

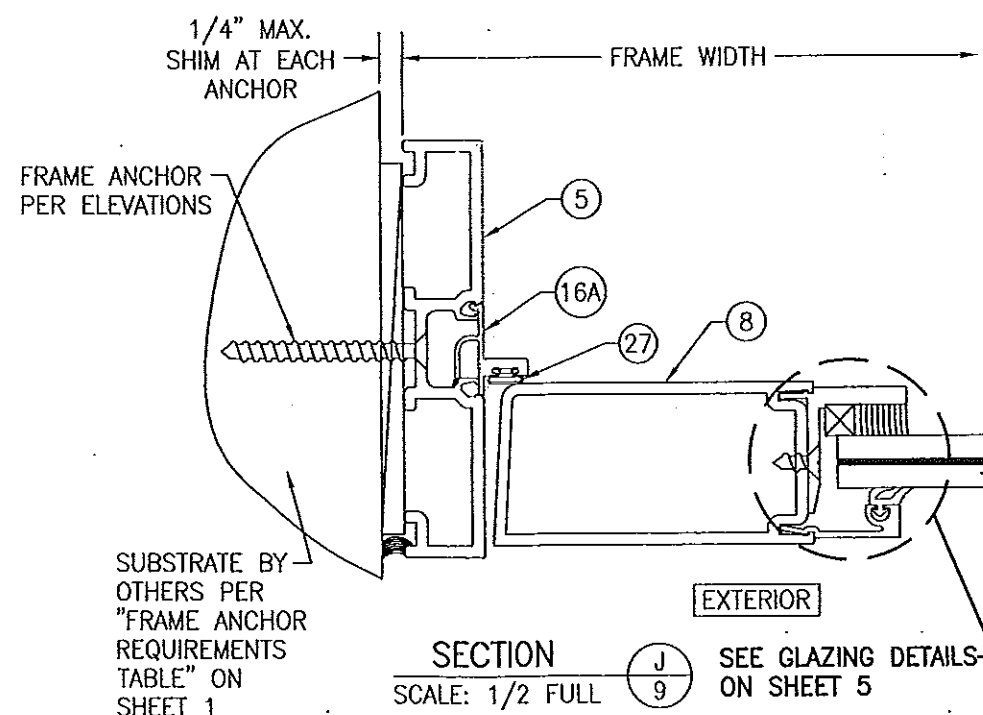
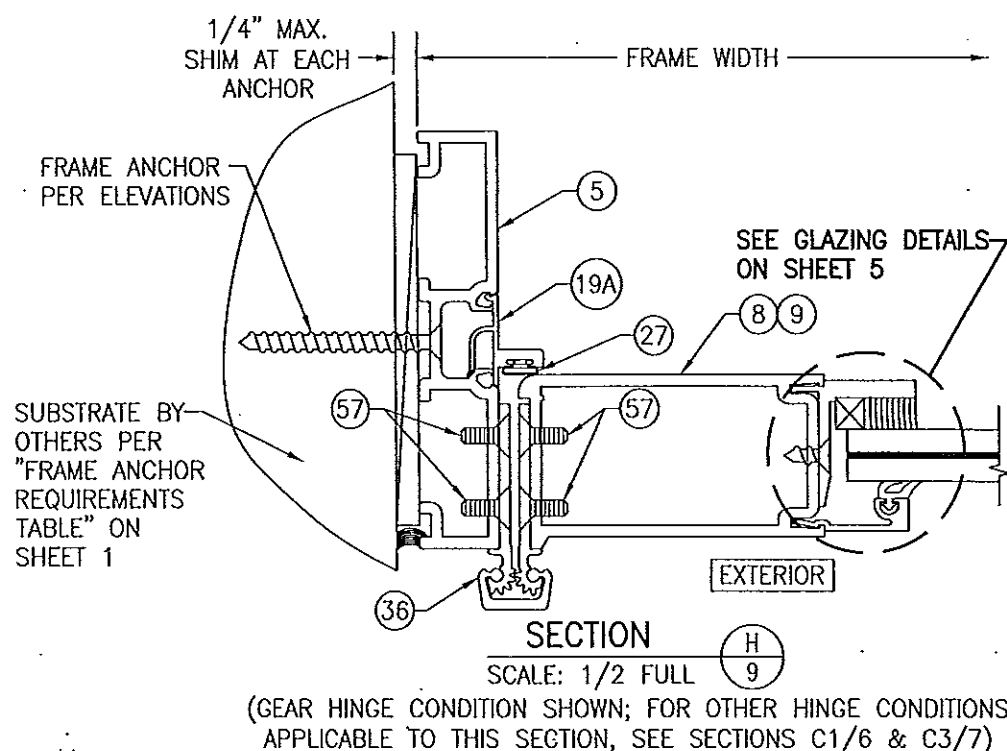
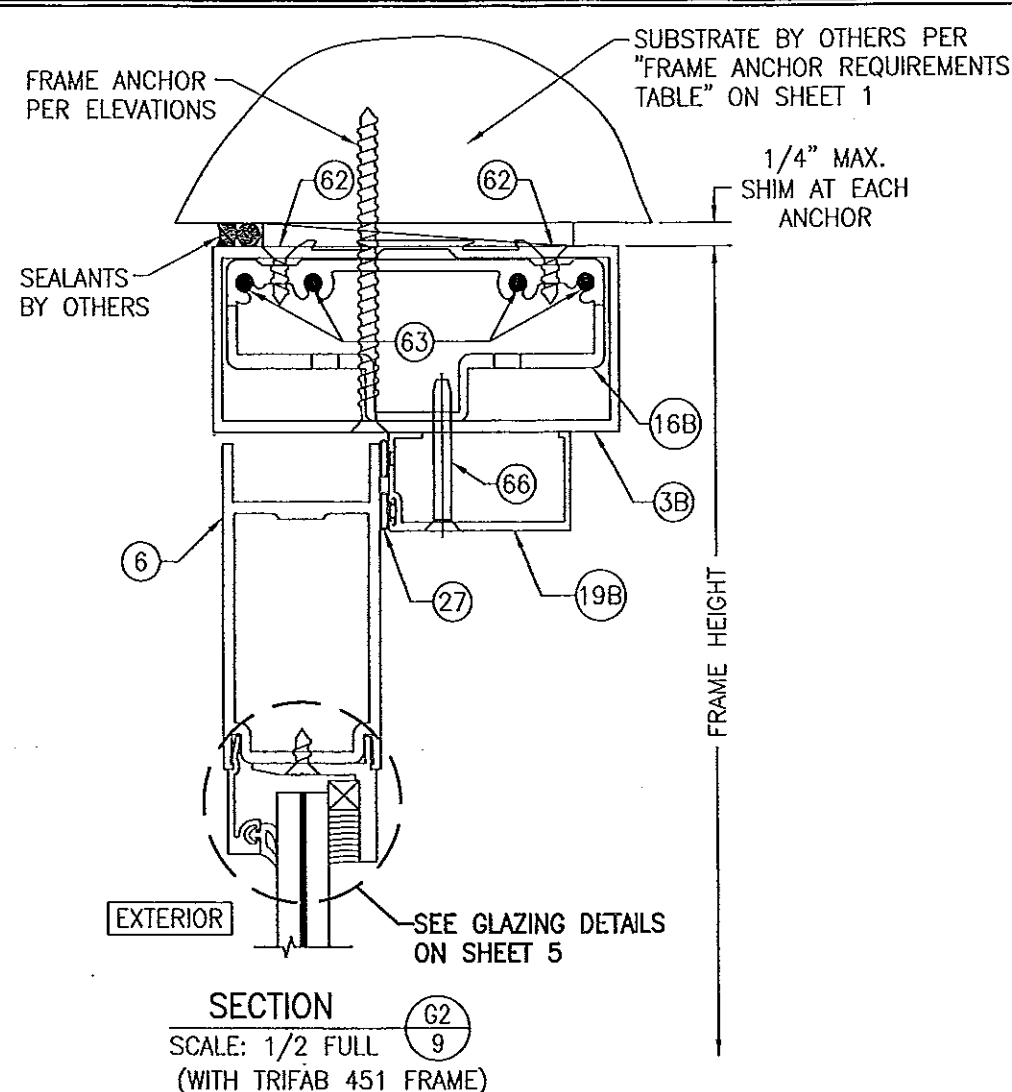
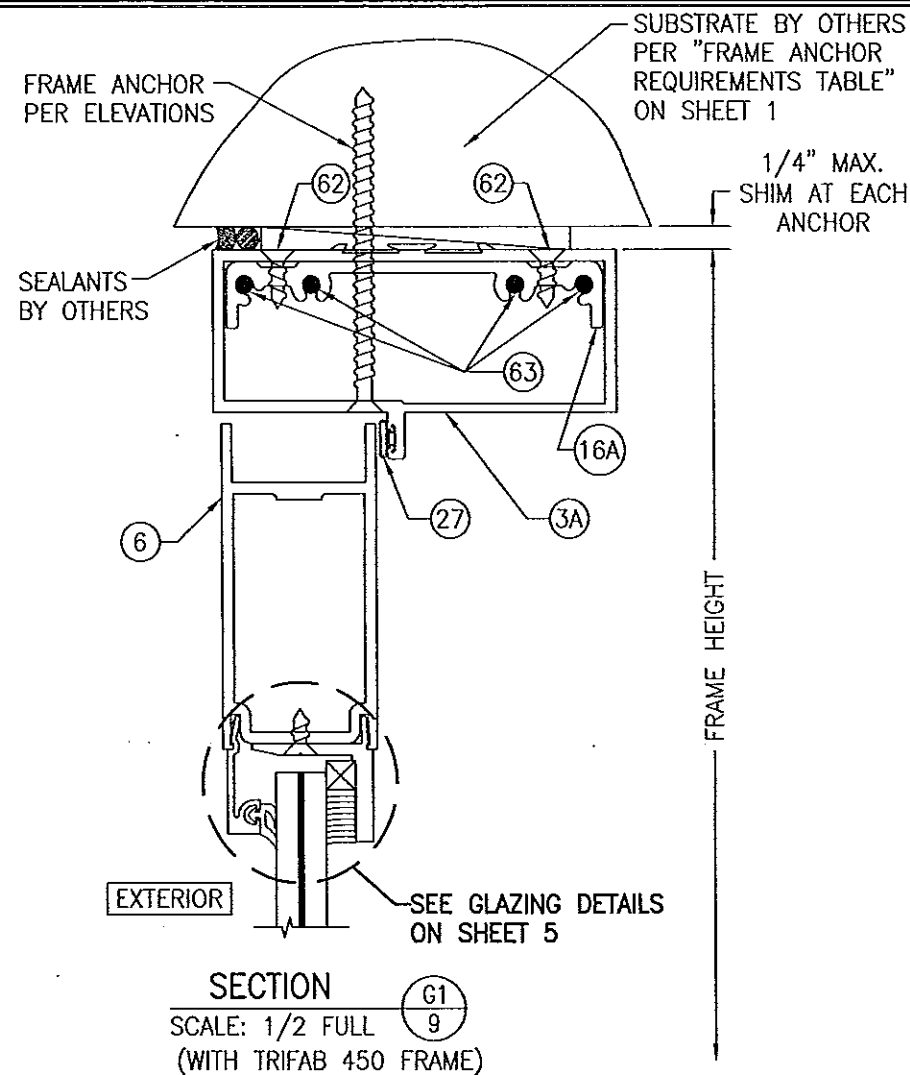


NOTE: THIS MID-RAIL MAY NOT BE USED ON DOORS WITH REQUIRED DESIGN PRESSURE OVER +/-70 PSF.

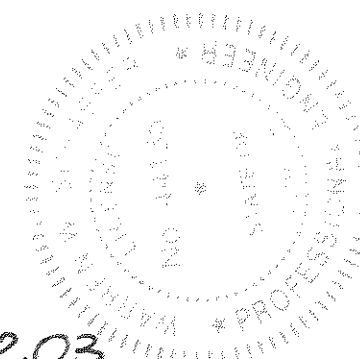
CORBIN RUSSWIN WS708AKM KEYED INTERIOR MULLION
(KEYED LOCK SHOWN IS AT INTERIOR)
(APPLICABLE WITH CORBIN RUSSWIN ITEM #54 ONLY)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-0602.03
Expiration Date 02/08/2017
By: [Signature]
Miami Dade Product Control

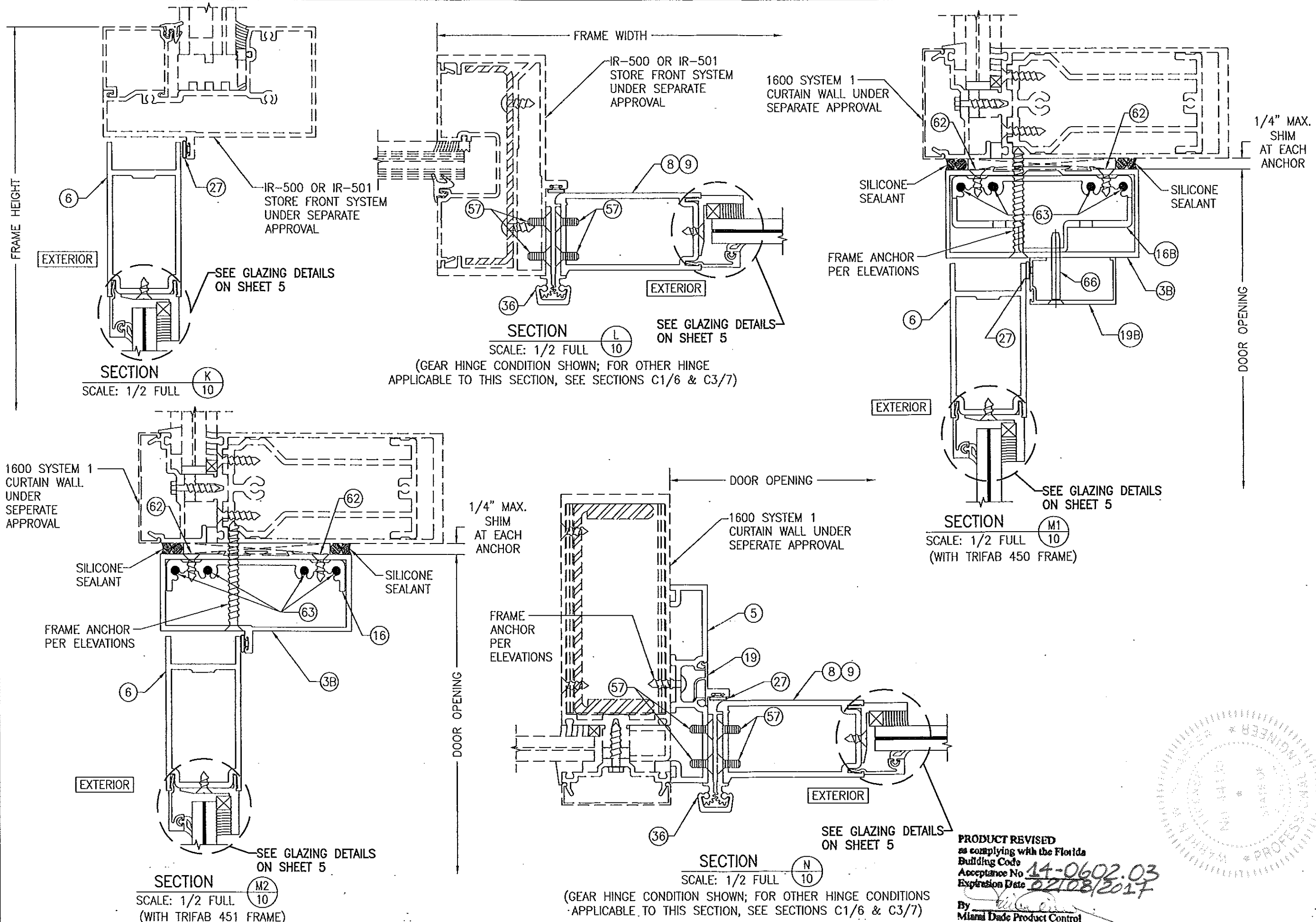
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 11/10/05
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE 350/500IR OUTSWING ALUMINUM STOREFRONT DOORS - LMI WET GLAZED	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION MAY 19 2014	DRAWING NO. 1460
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	REV. D
SHEET NO. 8 OF 13	



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-0602.03
Expiration Date 02/08/2017
By [Signature]
Miami Dade Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 11/10/05	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE 350/500IR OUTSWING ALUMINUM STOREFRONT DOORS --- LMI WET GLAZED			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION MAY 19 2014 WARREN W. SCHAEFER, P.E. P.E. NO. 15000			
DRAWING NO. 1460		REV. D	
SHEET NO.. 9 OF 13			



DRAWING NO. 1460		REV. D	
SHEET NO. 10 OF 13			
CERTIFICATION <div>MAY 19 2014</div> <div>WARREN W. SCHAEFER, P.E. P.E. NO. 44135</div>			
DRAWING TITLE 350/500R OUTSWING ALUMINUM STOREFRONT DOORS - LMI WET GLAZED			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
DRAWING TITLE	350/500R OUTSWING ALUMINUM STOREFRONT DOORS - LMI WET GLAZED		
NO.	REVISION DESCRIPTION	BY	DATE
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 11/10/05	

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 14-0602.03
 Expiration Date 02/08/2017
 By
 Miami Dade Product Control

